9.3 IDF-files

The file syntax of IDF-files (iMOD Data Files) is based upon a file structure without any line-feeds. This means that all data is written direct after each other. It is not written on a different *line*, but in a different *record*. An advantage of such a file structure is the possibility to access data randomly throughout the file (known as *direct-access*). The fileformat is unformatted and can therefore not be read in a normal TextEditor. It is based upon the *little-endian* data format, as we read the file with records of 4 bytes (or 1 word).

Cond.	Record	Format (bytes)	Variable	Description
	1	Integer 4	1271	Lahey RecordLength Ident.
	2	Integer 4	Ncol	Number of columns
	3	Integer 4	Nrow	Number of rows
	4	Float 4	Xmin	X lower-left-coordinate
	5	Float 4	Xmax	X upper-right-coordinate
	6	Float 4	Ymin	Y lower-left-coordinate
	7	Float 4	Ymax	Y upper-right-coordinate
	8	Float 4	Dmin	Minimal data value
	9	Float 4	Dmax	Maximal data value
	10	Float 4	NoData	NoData value
	11	Integer 1	IEQ	0: equidistant IDF 1: nonequidistant IDF
		Integer 1	ITB	0: no usage of Top and Bot Values 1: usage of Top and Bot Values
		Integer 1	IVF	0: no usage of vectors 1: vectors to be stored
		Integer 1		Not used
IEQ=0	12	Float 4	Dx	Column width, minimum width in case IEQ=1
IEQ=0	13	Float 4	Dy	Row height, minimum height in case IEQ=1
ITB=1	12+abs(IEQ-1)*2	Float 4	Top	Top value if ITB=1
ITB=1	13+abs(IEQ-1)*2	Float 4	Bot	Bot value if ITB=1
IEQ=1	12+ITB*2	Float 4	Dx(Ncol)	Column width for each column, ranging from west to east
IEQ=1	13+ITB*2+Ncol	Float 4	Dy(Nrow)	Row height for each row, ranging from north to south
	iRec=10 + abs(IEQ-1)*2 + IEQ*(Nrow+Ncol) + ITB*2 + 1			
Whenever IVF=0				
	iRec	Float 4	X(Ncol,Nrow)	Value for each cell
	iRec +(Nrow*Ncol)	Integer 1	IAdit	Binary number to store optional arguments: IP1=1: Comments added IP?=?:
IP1=1	iRec +(Nrow*Ncol)+1	Integer 1	Nline	Number of lines that contain comments
IP1=1		Char. 4	Comm(Nline)	Comment for Nlines